

Tribhuvan University  
Institute of Science and Technology  
2080  
☆

Bachelor Level / Second Year/ Fourth Semester  
**Bachelors in Information Technology (BIT 253)**  
(Systems Analysis and Design)

Full Marks: 60  
Pass Marks: 24  
Time: 3 hours

*Candidates are required to give their answers in their own words as far as practicable.  
The figures in the margin indicate full marks.*

**Section A**

Long Answer Questions

Attempt any TWO questions.

(2 × 10 = 20)

1. What is rapid application development? Explain agile development in brief. (4 + 6)
2. Why do we need feasibility study? Explain different types of feasibility study you use during information systems development. (3+7)
3. Explain the rules for drawing good DFDs. Draw context diagram and data flow diagram upto level 1 for managing internal examinations at your college. Make necessary assumptions. (3 + 7)

**Section B**

Short Answer Questions

Attempt any EIGHT questions.

(8 × 5 = 40)

4. Describe how CASE is used to support each phase of the SDLC. (5)
5. What is project management? Explain common skills of a project manager. (1 + 4)
6. Describe corporate strategic planning and information systems planning in brief. (2.5 + 2.5)
7. What is project planning? What are different activities performed during project planning? (1.5 + 3.5)
8. How can we use prototyping approach to determine requirements? Compare evolutionary prototype with throwaway prototype. (3 + 2)
9. Explain pseudocode with example. (5)
10. What are general formatting guidelines while formatting forms and reports? (5)
11. Describe different methods of interacting with a system. (5)
12. Explain different factors that influence maintainability of the information system. (5)